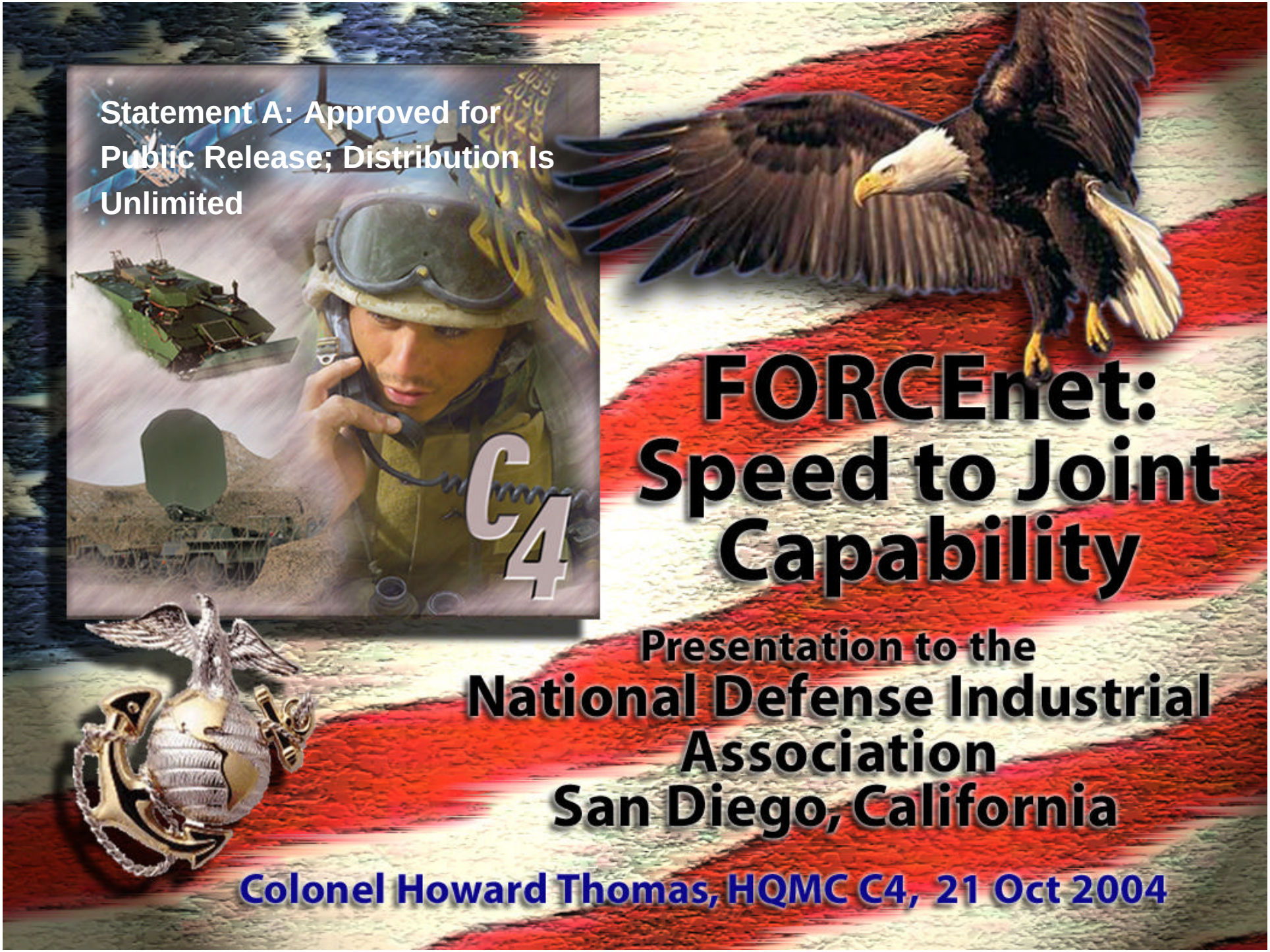

Statement A: Approved for Public Release; Distribution Is Unlimited
C4
FORCEnet: Speed to Joint Capability
Presentation to the
National Defense Industrial Association
San Diego, California
Colonel Howard Thomas, HQMC C4, 21 Oct 2004

Commitment to FORCEnet

- "FORCEnet is the Department of the Navy's catalyst for operational transformation. In the realm of network centric warfare and operations, it will enable orders of magnitude increases in combat power to ensure decisive influence and warfighting success across the full spectrum of military operations in the Information age".
  - **Honorable Hansford T. Johnson,**
    Secretary of the Navy, Acting
    Opening Statement, House Armed Services Committee
    Hearing, 26 February 2003

Marine Corps Perspective

- "FORCEnet will serve as an enabler for the capstone concepts of Sea Power 21 and Expeditionary Maneuver Warfare, providing networked combat forces able to successfully perform the operational concepts of Operational Maneuver from the Sea and Sustained Operations Ashore within a complex, joint environment.

FORCEnet is…

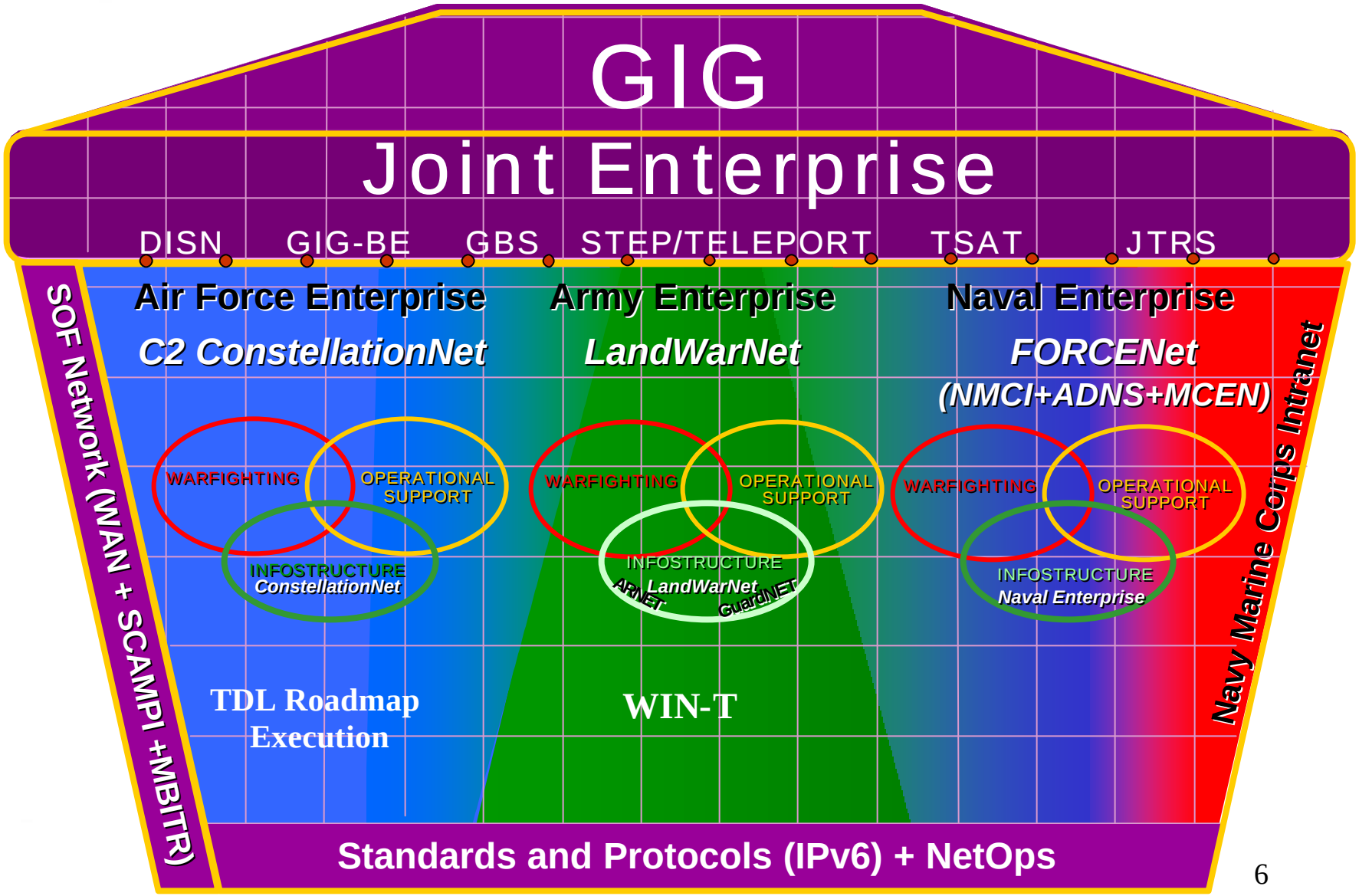
- The Department of the Navy's component of the Global Information Grid.
- It reflects the Department's information-centric approach for conducting joint warfare in the future.
- An over-arching entity that will bring together communications and data systems capabilities, and through innovation and experimentation, turn the implementation of the Network-Centric environment into reality.

FORCEnet is…

- FORCEnet is the **Naval Enterprise IT** environment that brings together the "warfighter" and business/enterprise practices.
- FORCEnet will carry out the policies and capabilities requirements for emerging **Naval** interoperable systems to replace former legacy systems.
- Align and integrate warriors, sensors, command & control, platforms and weapons into a globally networked, distributed combat force.
- Require Navy and Marine programs to be changed to provide or enable network centric warfare and leverage NCES and GIG-BE capabilities.

The Big Picture
Global Information Grid

Headquarters, U.S. Marine Corps

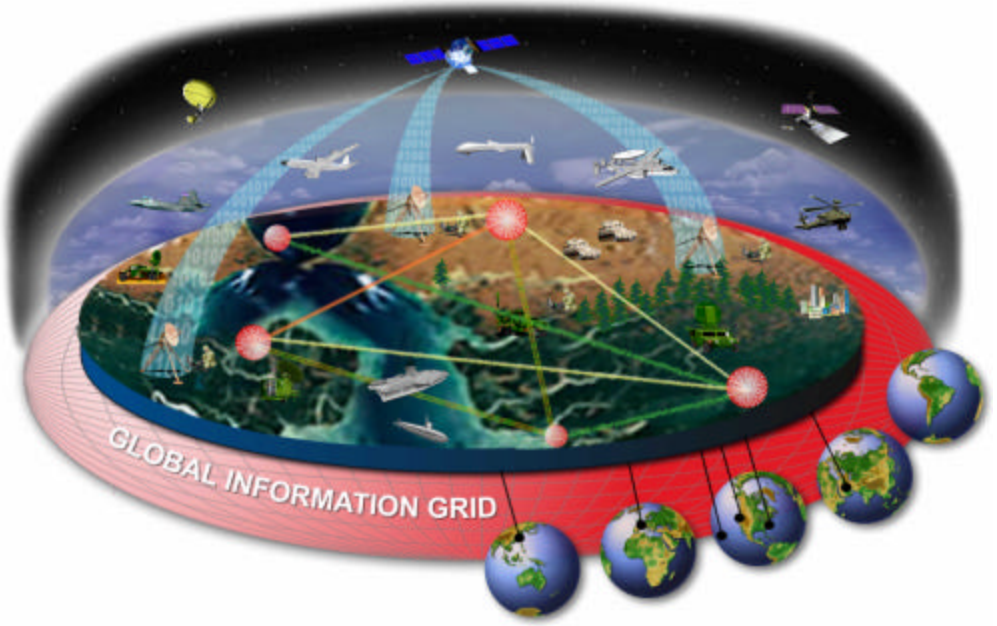


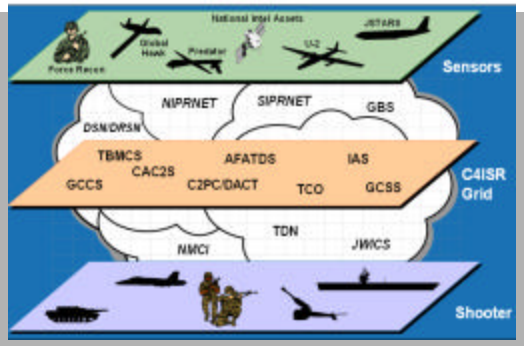
The FORCEnet Goal

The Right Information

To The Right People

At The Right Time





People + Training + Integrated Systems = Warfighting Capability

FORCEnet Provides…

- Strategic Focus, Analytical Rigor and Disciplined Investment Planning to Rapidly Develop, Test and Deliver Interoperable Systems Across the Spectrum to include Combat Power and the Supporting Elements that allow it to happen.
- An Integration of all force elements throughout the battlespace including warfighters afloat and ashore.

FORCEnet Provides…

- An Open Architecture that provides the basis for interoperability with joint, allied, coalition forces.
- The “last tactical mile C4” capability to allow increase in wideband communication connectivity to maneuver units.

Marine Corps fully participates and supports FORCEnet

- Marine Corps Combat Development Command (MCCDC)
- HQMC – C4
- Marine Corps Systems Command (MCSC)
- Marine Corps Warfighting Lab (MCWL)

Through this partnership the Marine Corps contribution to FORCEnet is through the Marine Corps Enterprise Network: **MCEN**

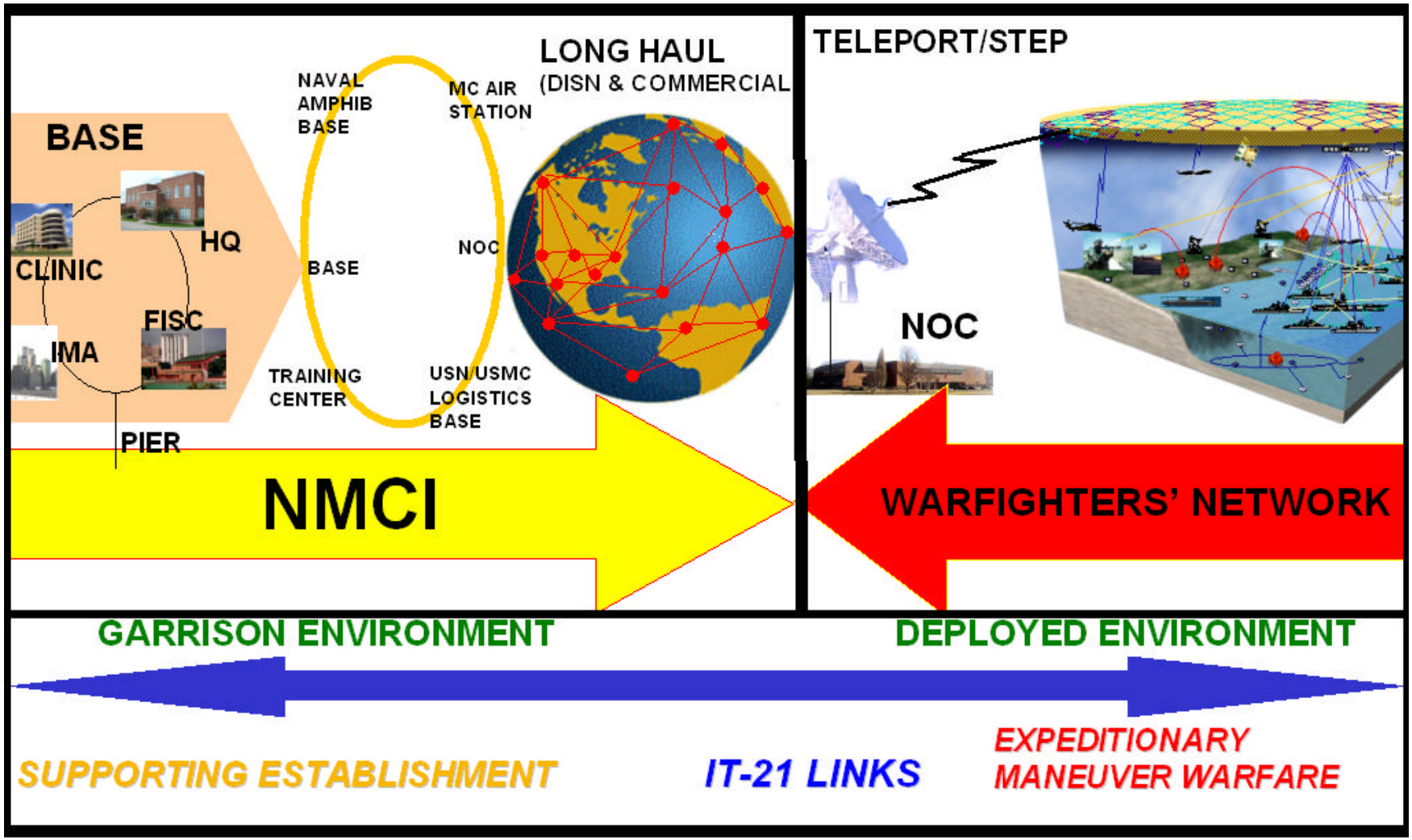
FORCEnet and the MCEN

- "The **Marine Corps Enterprise Network**, consisting of the NMCI and the MAGTF Tactical Data Network, is the **Marine Corps contribution to FORCEnet**, our naval architecture construct, and the Global Information Grid. Programmed enhancements to MCEN will provide a significant contribution to FORCEnet…Our goal is to create a enterprise shared data environment that leverages DoD, Joint and Naval initiatives resulting in greater data standardization and interoperability".

How we are Building The Network

Marine Corps Enterprise Network

Headquarters, U.S. Marine Corps



FORCEnet and Industry

- Industry can foster FORCEnet by providing emerging technologies in conjunction with FORCEnet requirements, open and non-proprietory net-centric solutions, raising net-centric operations to the next level by focusing on applications (e.g…)
- To facilitate the culture shift, integrate an intelligent agent to alert the user when new information is available
- Look to integrate voice-to-text between chat users with different bandwidth constraints
- When operating with coalition/allied forces, integrate multiple security levels for web, chat and other forms of information exchange

Summary

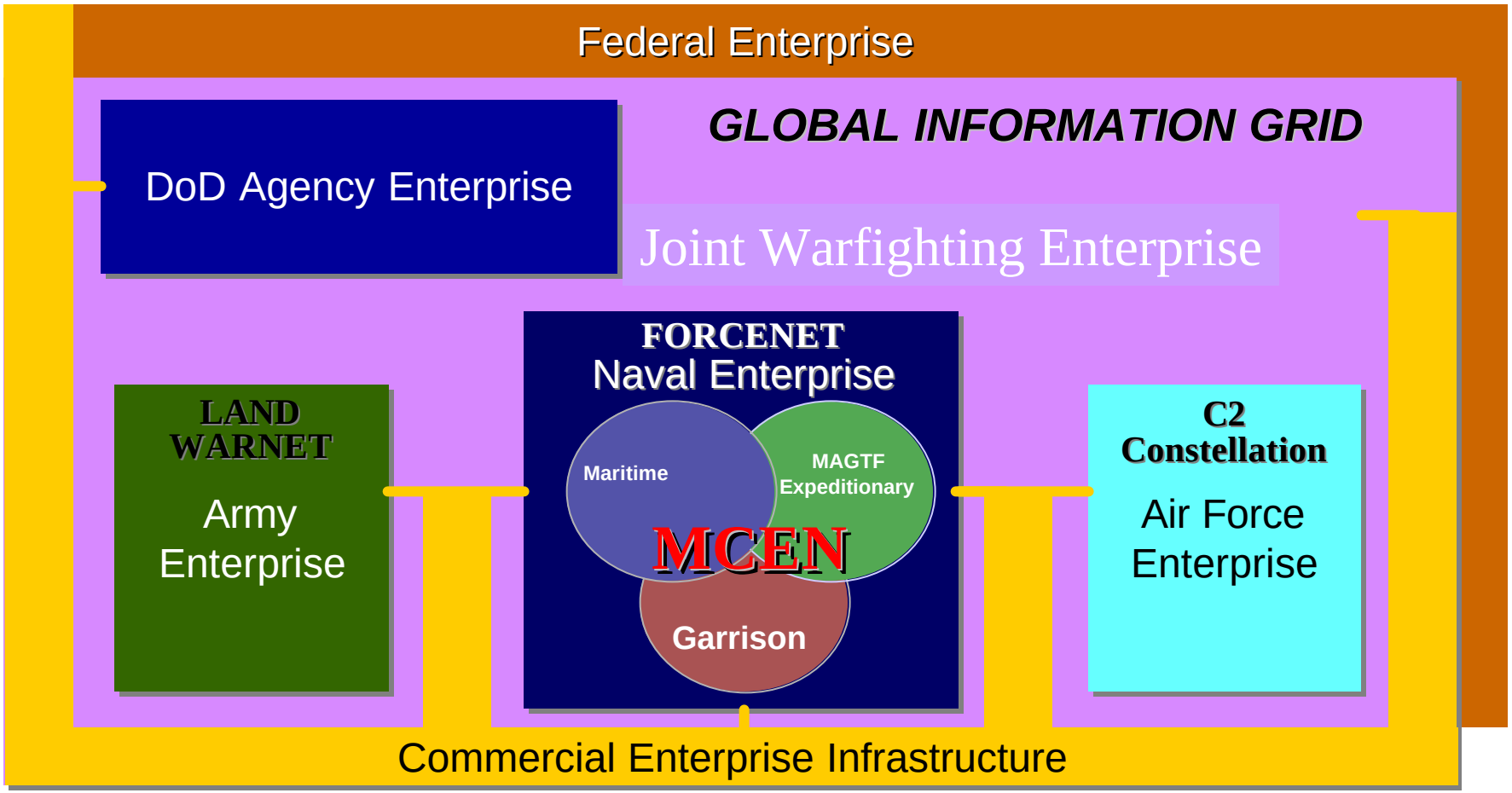
- The US Marine Corps supports the FORCEnet concept.
- The Marine Corps conduit to FORCEnet is through MCEN.
- MCEN, through FORCEnet will integrate with the GIG and allow interoperability with the other services and allies.

Summary

- FORCEnet operations require a highly networked force supported by advances in Information Age capabilities.
- FORCEnet Development is Continuous
  - It has been in existence in one form or another since the first semaphore flag was raised.
  - It will continue to evolve as technologies will allow
- Goal: Success by 2015-2020 timeframe and beyond.

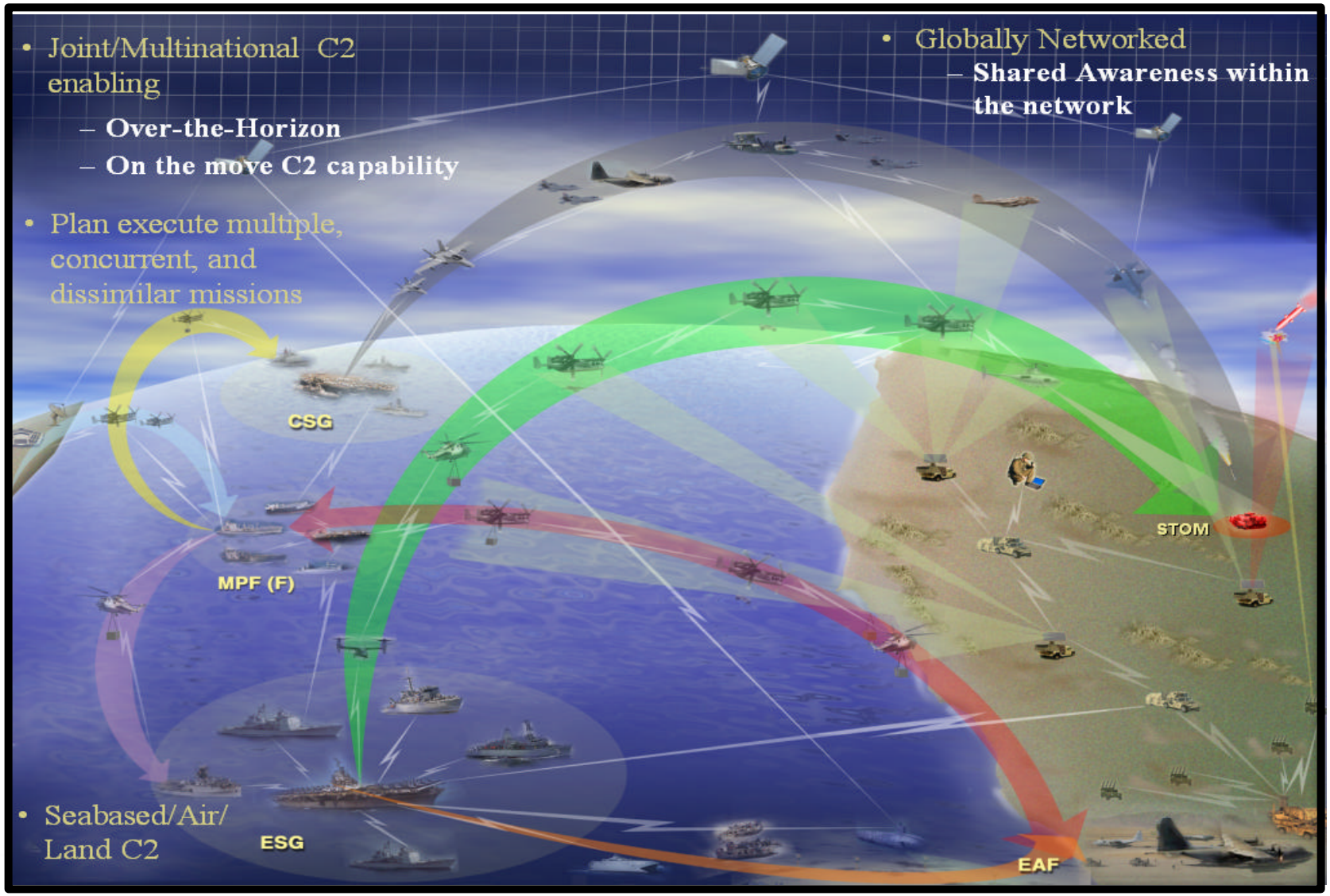
What it will look like?

Architecture Framework



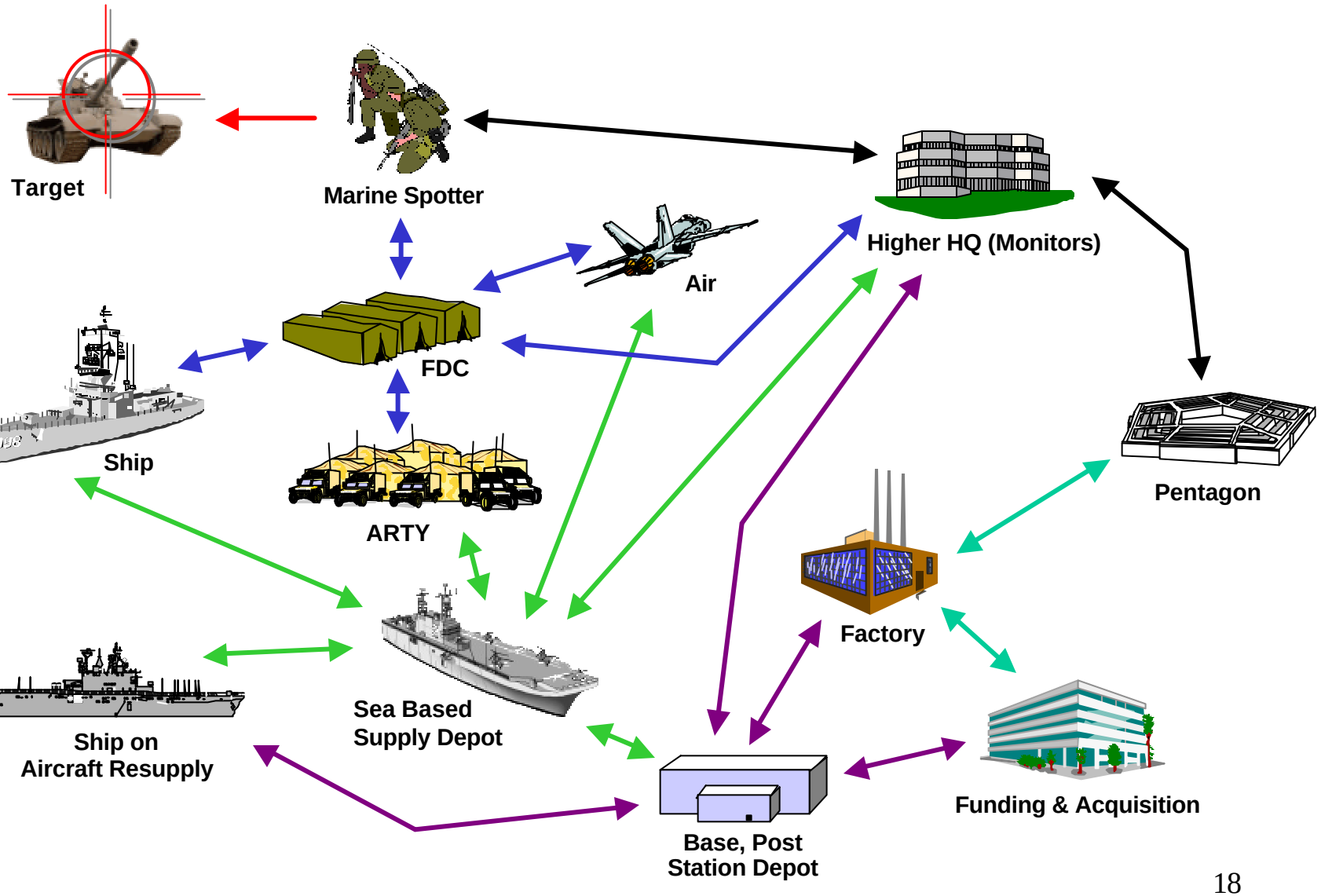
The Big Picture
Expeditionary by Design…(eXnet)

Headquarters, U.S. Marine Corps



In a Perfect World

Headquarters, U.S. Marine Corps



Summary

- **FORCEnet is NAVAL**

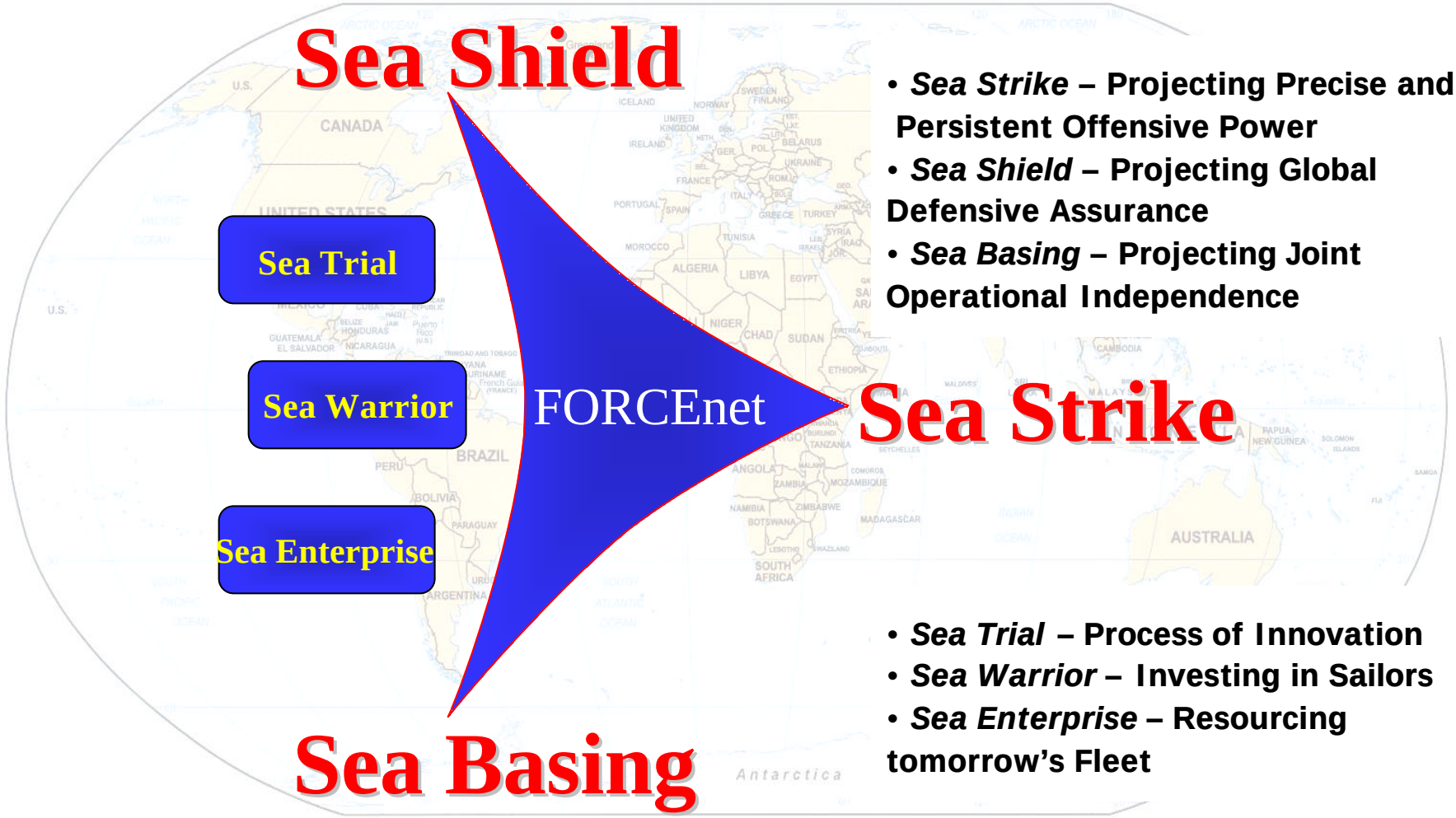
"Lethal weapons and advanced technologies provide us unique advantages, but educated warriors ultimately determine victory in combat, not machines."

General Hagee

CMC

FORCEnet Supports the Pillars

Headquarters, U.S. Marine Corps



- ***Sea Strike*** **– Projecting Precise and Persistent Offensive Power**
- ***Sea Shield*** **– Projecting Global Defensive Assurance**
- ***Sea Basing*** **– Projecting Joint Operational Independence**

- ***Sea Trial*** **– Process of Innovation**
- ***Sea Warrior*** **– Investing in Sailors**
- ***Sea Enterprise*** **– Resourcing tomorrow's Fleet**

Implemented by a Global Concept of Operations

The Marine Corps and FORCEnet

- The Marine Corps fully supports and participates in FORCEnet through the:
  - Marine Corps Combat Development Command (MCCDC)
  - HQMC – C4
  - Marine Corps Systems Command (MCSC)
  - Marine Corps Warfighting Lab (MCWL)

Navy-Marine Corps FORCEnet Team

Headquarters, U.S. Marine Corps

- Partner with Navy NETWARCON, SPAWAR, OPNAV and Naval Warfare Development Command
- Together the Navy-Marine Corps TCAM are developing the:
  - FORCEnet Campaign Plan
  - FORCEnet Command and Control Concept
  - FORCEnet Architecture Development with SPAWAR
- And…together we participate in the:
  - FORCEnet OAG with NETWARCOM
  - FORCEnet PR-07 Wargame with OPNAV N704 (and soon …POM-08)
  - And numerous other venues to include the Office of Naval Research

FORCEnet and USMC Expeditionary Capabilities

- MCEN Enhancements
- Information Assurance
- Multiple Levels of Security
- Transformational Communications Architecture
- Net-Centric Enterprise Service
- GIG Bandwidth Expansion for access to designated echelons
- Common Operational Picture
- Over the Horizon Communications (including STOM-Bridge)
- Systems Interoperability - Garrison &Deployed w/other Services
- Standard Collaborative Tool Sets
- Blue Force Tracking/Combat ID

Marine Corps Perspective

- "FORCEnet will serve as an enabler for the capstone concepts of Sea Power 21 and Expeditionary Maneuver Warfare, providing networked combat forces able to successfully perform the operational concepts of Operational Maneuver from the Sea (OMFTS) and Sustained Operations Ashore (SOA) within a complex, joint environment.

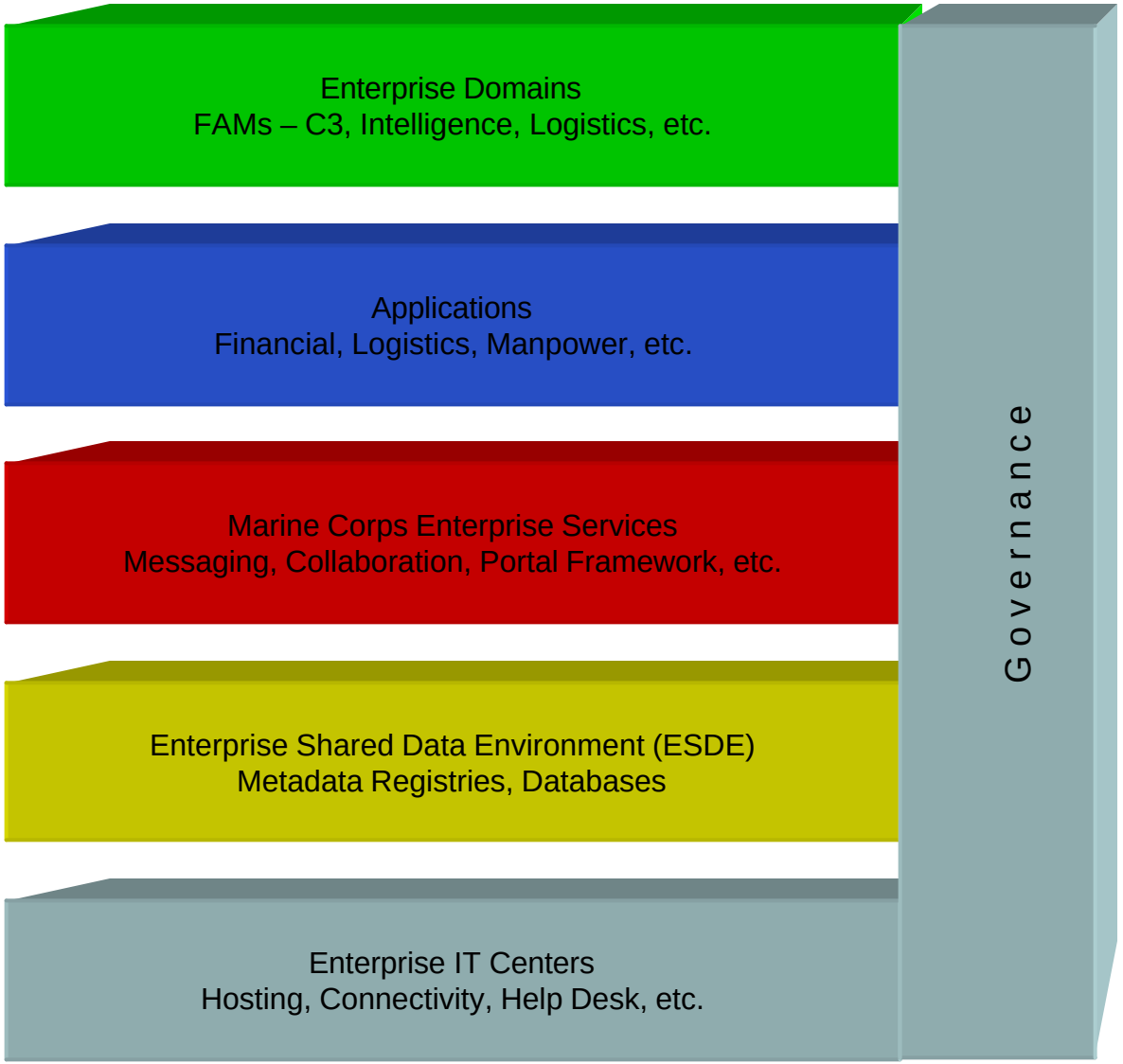
Marine Corps FORCEnet Efforts

- MCEN
- DoD Related Programs
- OEF/OIF Lessons Learned
- STOM Bridge
- ELMR
- JWID
- Coordination with other Services
- Engagement with JFCOM
- Industry/NDIA support

What is MCEITS?

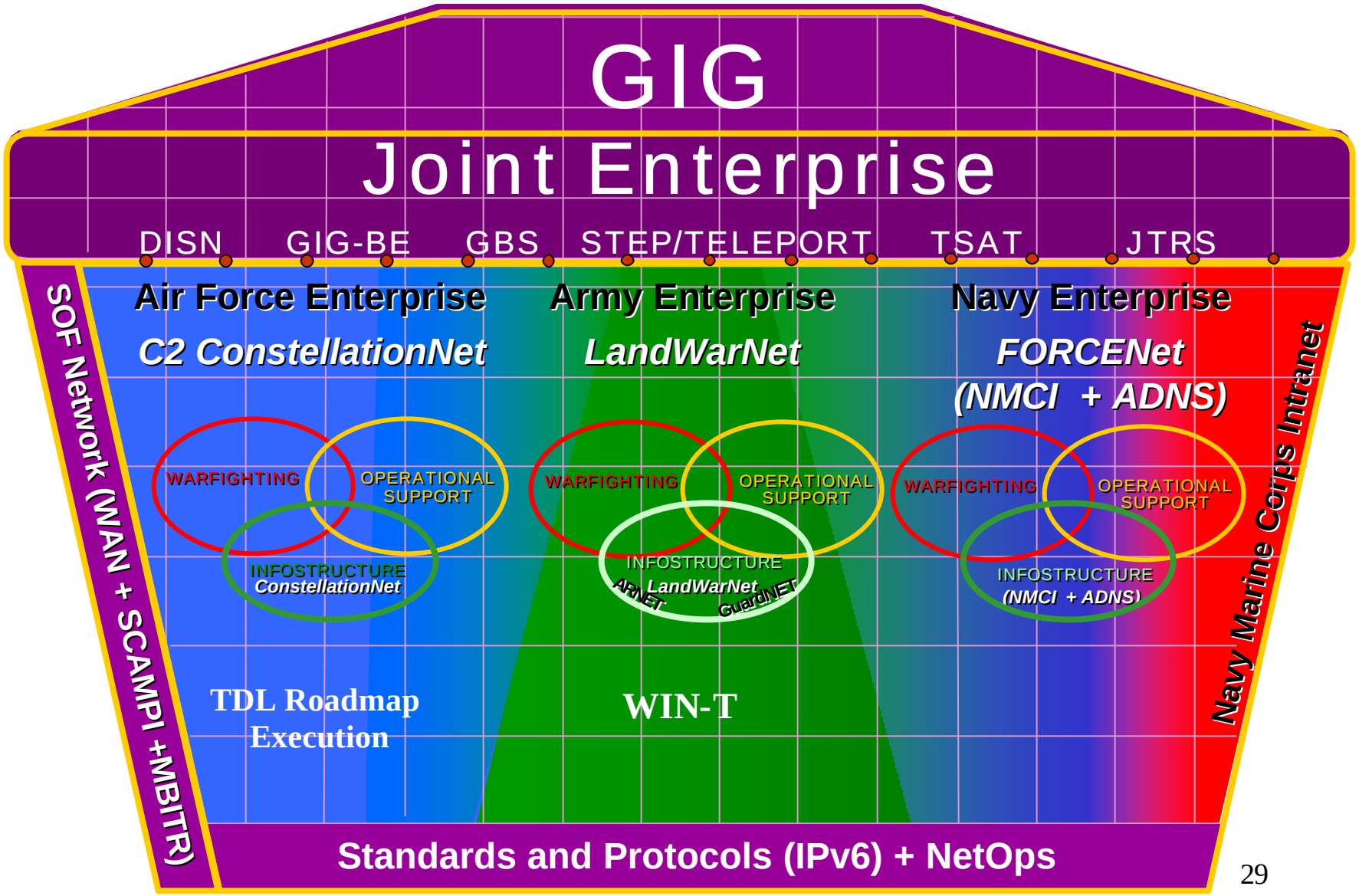
- A USMC "Services Oriented Architecture"
  - IT infrastructure (enterprise IT centers)
  - Enterprise Shared Data Environment (ESDE)
  - Enterprise access (Portal)
  - Enterprise IT services
- IT Investment and Realignment
- A FY06 Program of Record
  - USMC implementation of net-centric operations
  - Leverage and extend joint IT transformational initiatives

MCEITS Components



Summary

- The Navy and Marine Corps have been building FORCEnet for 228 years now

The Big Picture
Global Information Grid

Headquarters, U.S. Marine Corps